

## FAX TRANSMISSION

U.S. Fish and Wildlife Service  
Leavenworth National Fish Hatchery Complex  
Entiat, Leavenworth and Winthrop Salmon Hatcheries  
12790 Fish Hatchery Road  
Leavenworth, WA 98826  
Telephone: (509)548-7641  
Fax: (509)548-6263

To: Dave RagsdaleDate: 9/14/06Fax No: (360) 753-8080

Subject: phosphorus monitoring results  
Leavenworth NFH

Dave,

Here are results of two months  
sampling effort (May + July 06).

Travis Collier has one additional  
month's result, and will fax  
that one separately.

Julie C.

Total Pages (Including this sheet) 7

## **Manchester Environmental Laboratory**

7411 Beach Dr E, Port Orchard, Washington 98366

### **Case Narrative**

**May 30, 2006**

Subject: General Chemistry Leavenworth NFH - 21

Project No: 135606

Officer: Travis Collier

By: Dean Momohara

### **Summary**

The samples were analyzed by the following method: EPA 200.8M for total phosphorous (TP).

The analysis requested was evaluated by established regulatory quality assurance guidelines.

### **Sample Information**

Samples were received by Manchester Environmental Laboratory on 05/22/06. All coolers were received at 17°C, above the proper temperature range of 0°C - 6°C. All samples were received in good condition and were properly preserved. Three (3) samples were received and assigned laboratory identification numbers 214005 - 214007.

### **Holding Times**

The analysis was performed within established EPA holding times.

### **Calibration**

Instrument calibration and calibration checks were performed in accordance with the appropriate method. All initial and continuing calibration checks were within control limits. The calibration correlation coefficient was within the acceptance range of 1.000 - 0.995. The instrument was calibrated with NIST traceable standards and verified to be in calibration with a second source NIST traceable standard.

**Method Blanks**

No analytically significant level of analyte was detected in the method blank associated with these samples.

**Matrix Spikes**

The matrix spike recoveries were within the acceptance limits of 75% - 125% for all other analyses.

**Replicates**

The duplicate relative percent difference was within the acceptance range of 0% - 20%.

**Laboratory Control Samples**

The laboratory control sample recovery was within the acceptance limits of 85% - 115%.

**Other Quality Assurance Measures and Issues**

All internal standard recoveries for were within acceptance limits.

- U - The analyte was not detected at or above the reported result.
- bold** - The analyte was present in the sample. (Visual Aid to locate detected compounds on report sheet.)

Please call Dean Momohara at (360) 871-8808 to further discuss this project.

cc: Project File

Washington State Department of Ecology  
Manchester Environmental Laboratory  
Analysis Report for  
Total Phosphorus

Project Name: Leavenworth NFH - 21

LIMS Project ID: 1356-06

Project Officer: Stuart Magoon

Method: EPA200.8M

Date Reported: 05/24/06

Analyte: Phosphorus

| Sample    | QC | Field ID  | Matrix | Result | Qualifier | Units | Collected | Analyzed |
|-----------|----|-----------|--------|--------|-----------|-------|-----------|----------|
| 06214005  |    | SNOW CR   | Water  | 0.0107 |           | mg/L  | 05/18/06  | 05/23/06 |
| 06214006  |    | ICICLE IS | Water  | 0.0122 |           | mg/L  | 05/18/06  | 05/23/06 |
| 06214007  |    | MOUNTAIN  | Water  | 0.0149 |           | mg/L  | 05/18/06  | 05/23/06 |
| MB0614314 |    | Lab BLNK  | Water  | 0.0010 | U         | mg/L  |           | 05/23/06 |
| ML0614314 |    | Lab LCS-  | Water  | 101    |           | %     |           | 05/23/06 |

Authorized By: John D. SmithRelease Date: 5/24/06

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## **Manchester Environmental Laboratory**

7411 Beach Dr E, Port Orchard, Washington 98366

### **Case Narrative**

**July 17, 2006**

**Subject:** Metals Leavenworth NFH

**Project No:** 149506

**Officer:** Travis Collier

**By:** Dean Momohara

### **Summary**

The samples were analyzed using the following method: EPA method 200.8M (ICPMS) for total phosphorous.

All analyses requested were evaluated by established regulatory quality assurance guidelines.

### **Sample Information**

Samples were received by Manchester Environmental Laboratory on 07/12/06. All coolers were received within the proper temperature range of 0°C - 6°C. The samples were received in good condition and were properly preserved. Six (6) samples were received and assigned laboratory identification numbers 284040 – 284045.

### **Holding Times**

All analyses were performed within established EPA holding times.

### **Calibration**

Instrument calibration and calibration checks were performed in accordance with the appropriate method. All initial and continuing calibration checks were within control limits. The calibration correlation coefficient was within the acceptance range of 1.000 - 0.995. The instruments were calibrated with NIST traceable standards and verified to be in calibration with a second source NIST traceable standard.



**Method Blanks**

No analytically significant level of analyte was detected in the method blank associated with these samples.

**Matrix Spikes**

All associated matrix spike recoveries were within the acceptance limits of 75% - 125%.

**Replicates**

All associated duplicate relative percent differences of samples with concentrations greater than 5 times the reporting limit were within the acceptance range of 0% - 20%.

**Laboratory Control Samples**

All laboratory control sample recoveries were within the acceptance limits of 85% - 115%.

**Other Quality Assurance Measures and Issues**

All internal standard recoveries were within acceptance limits.

U - The analyte was not detected at or above the reported result.

**bold** - The analyte was present in the sample. (Visual Aid to locate detected compounds on report sheet.)

Please call Dean Momohara at (360) 871-8808 to further discuss this project.

cc: Project File

Washington State Department of Ecology  
Manchester Environmental Laboratory  
Analysis Report for  
Total Phosphorus

| Project Name: Leavenworth NFH - 28 |    |              |        | LIMS Project ID: 1495-06 |           |       |           |          |
|------------------------------------|----|--------------|--------|--------------------------|-----------|-------|-----------|----------|
| Project Officer: Stuart Magoon     |    |              |        | Method: EPA200.8M        |           |       |           |          |
| Date Reported: 07/14/06            |    |              |        | Analyte: Phosphorus      |           |       |           |          |
| Sample                             | QC | Field ID     | Matrix | Result                   | Qualifier | Units | Collected | Analyzed |
| 06284040                           |    | ICICLESNOW   | Water  | 0.0050                   |           | mg/L  | 07/11/06  | 07/13/06 |
| 06284041                           |    | INTAKE       | Water  | 0.0051                   |           | mg/L  | 07/11/06  | 07/13/06 |
| 06284042                           |    | MT HOME      | Water  | 0.0050                   |           | mg/L  | 07/11/06  | 07/13/06 |
| 06284043                           |    | EAST LEAV    | Water  | 0.0079                   |           | mg/L  | 07/11/06  | 07/13/06 |
| 06284044                           |    | LADDER       | Water  | 0.0089                   |           | mg/L  | 07/11/06  | 07/13/06 |
| 06284045                           |    | OUTFALL P.A. | Water  | 0.0592                   |           | mg/L  | 07/11/06  | 07/13/06 |
| MB06194I3                          |    | Lab BLNK     | Water  | 0.0010                   | U         | mg/L  |           | 07/13/06 |
| ML06194I3                          |    | Lab LCS-     | Water  | 97                       |           | %     |           | 07/13/06 |

Authorized By: Sara FrankRelease Date: 7/14/06

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